

Reflective Cracking Testing Notes

Date: March 10, 2017

Project: Reflective Cracking Indoor Phase 5

Temperature:

Ambient temp: 43.8F

Interface temp: T1-N = 26.4F; T1-S = 27.1F

Working Hours: 7:00 AM – 3:30 PM

Sub-Contractor(s): N/A

Equipment: N/A

Reflective Cracking Testing Notes:

Cycle count: 782

South test item observations:

- Outer vertical edge:
 - The vertical edge is cracked. No visual change from yesterday was observed.
 - All the vertical edge surface gauges read open as shown in Figures 1 and 2.
- Joint surface area:
 - The South side surface crack has gone through SG5-S-6, SG4-S-6 and SG3-S-6.
 - SG5-S-6 and SG4-S-6 gauges read open. SG3-S-6 received crack damage but is not open. SG2-S-6 is still good.
 - The surface crack propagation is up to the 55” mark. SG2-S-6 is at the 57.5” mark of the 60” test section as shown in Figure 3.
- Inner vertical edge:
 - The lower half of the inner vertical edge is now cracked. SG1-S-0 is open. SG1-S-1.5 received crack damage. The crack stopped at SG1-S-3 as shown in Figure 4.

North test item observations:

- Outer vertical edge:
 - The vertical edge is completely cracked as shown in Figure 5.
 - All vertical edge gauges are open.
 - No visual observation change.
- Joint surface area:
 - The North surface crack propagated 3.5” leaving it at the 50” mark.
 - A second new crack appeared coming in from the inner vertical edge. The crack is located on the lower left side of SG2-N-3 as shown in Figure 6.
- Inner vertical edge:
 - The North inner vertical edge is now cracked. The vertical crack propagated upward to the surface reaching SG2-N-3 as shown in Figure 7.
 - The North test section is not cracked between 50” and 58” of the 60” test section.
 - All the North side surface gauges are open but SG2-N-3.



Figure 1. Outer vertical edge completely cracked.

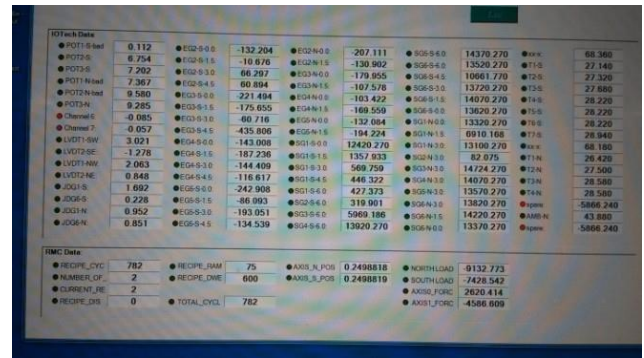


Figure 2. All vertical edge surface gauges are open.

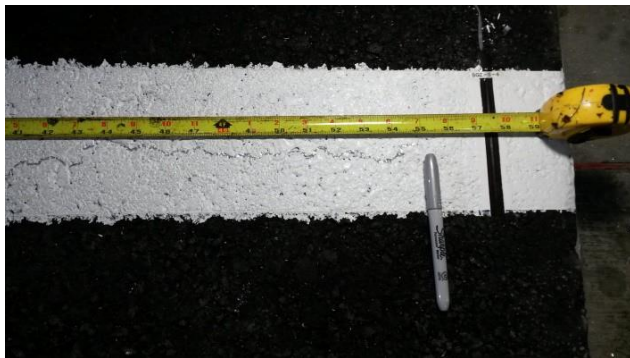


Figure 3. South side surface crack at 55" mark.



Figure 4. Lower half of the inner vertical edge crack.



Figure 5. North outer vertical edge crack.

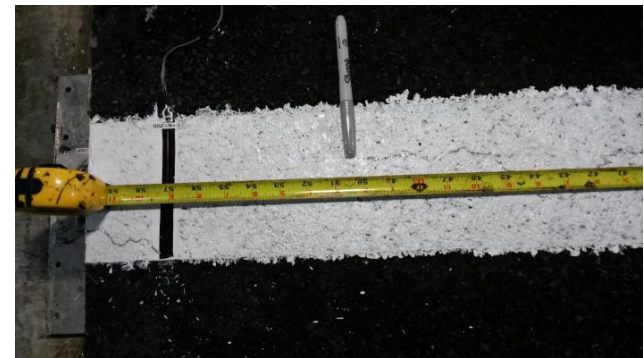


Figure 6. North surface crack at the 50" mark. Second surface crack on lower left of SG2-S-3 at 58" mark.



Figure 7. North inner vertical edge cracked. Surface gauges open.